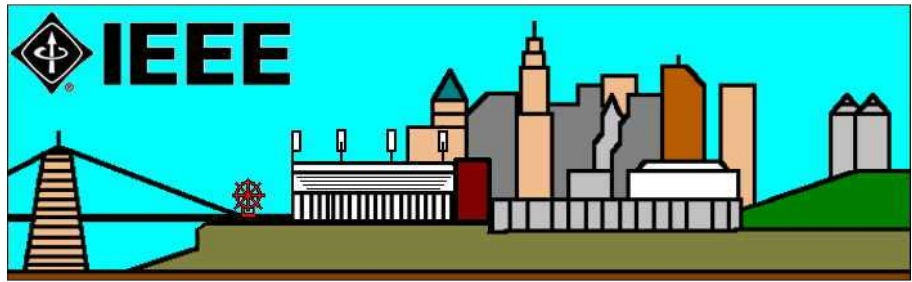


**IEEE CINCINNATI
SECTION
NEWSLETTER
NOV./DEC. 2006**



DECEMBER MEETING

**Researching the University of Cincinnati's
Computer Past: A Multidimensional Prospective on
the History of Computing at the University of Cincinnati**

DATE: Thursday, December 7, 2006

PLACE : Raffel's – 10160 Reading Road (see below for directions)

TIME : 5:30 p.m. to 7:00 p.m. - Social Time/Dinner
7:00 p.m. to 8:30 p.m. - Program

COST FOR DINNER: \$10.00 for Student Members
\$15.00 for Members
\$20.00 for Non-Members

NOTE: DINNERS ARE ALWAYS OPTIONAL - YOU MAY ATTEND THE PROGRAM ONLY.

MENU SELECTIONS: Roasted Turkey & Dressing, Baked Ham with Pineapples, Chicken Ala King, Sweet Potato Casserole, Scalloped Potatoes, Seasoned Green Beans, Tossed Salad, Dinner Rolls and Butter, Assorted Holiday Pies, Coffee, Tea Iced Tea, Soft Drinks. There is also a bar available for the purchase of alcoholic drinks.

LOCATION: Raffel's is located at 10160 Reading Road, south of Glendale-Milford Road on the east side of Reading. Take I-75 to the Glendale-Milford Rd. Exit, go east on Glendale-Milford Road approximately 3/4 of a mile to Reading Rd. and turn right on Reading.

Please call the Cincinnati Section Voice Mailbox at **513-629-9380**, by **Noon, Tuesday, December 5, 2006** if you plan to attend. Please leave your Name, IEEE Member Number, and a daytime telephone number. You can also make a reservation by e-mailing our Arrangements Chair, Charlie Nash, at cnash@ieee.org.

PE CREDITS: Depending on the subject matter, attendance at IEEE Cincinnati Section Meetings now qualifies the attendee for Professional Development Hours towards renewal of Professional Engineers Licenses. Required documentation will be available following the meeting! The Section Meetings also provide a great opportunity to network with fellow engineers in the area.

ABOUT THE MEETING: This month's presentation, by Mr. Russ McMahon, examines some of the contributions of the faculty, alumni, and staff from the University of Cincinnati in the field of computing. Research for the presentation began in Spring Quarter of 2005 as an assignment for honors class on the history of computing and has now become a major research project. It has grown to include not only persons who have passed through the university, but also the history of the machines, colleges, and other events related to them.

ABOUT THE SPEAKER: Russ McMahon is an associate professor of Information Technology at University of Cincinnati's College of Applied Science where he has been teaching for the last 7 years. He has 13 years of secondary education teaching and spent 9 years as a technical trainer and software support person for Cincom Systems and Duke Energy (formerly CG&E). He enjoys reading about the history of science and technology and running.

CHAIR'S MESSAGE

by Jim Everly, Section Chair

A sincere "thank you" goes out to Dr. Al Scheide, for the October Section meeting. I personally enjoyed Al's presentation on RFID entitled "RFID: the Good, the Band, and the Ugly." The meeting was well attended and I was pleased with the questions that were asked during the presentation.

This month's meeting features Professor Russ McMahon of the Information Technology Department at University of Cincinnati's College of Applied Science topic. Russ will examine some of the contributions that the faculty, alumni, and staff of the University of Cincinnati have made in the field of computing.

Research for this month's meeting began in Spring Quarter of 2005 as an assignment for honors class on the history of computing and has now become a major research project. It has grown to include not only persons who have passed through the university, but also the history of the machines, colleges, and other events related to them.

Russ Mc Mahon has been teaching at the University for the last 7 years. He has 13 years of secondary education teaching and spent 9 years as a technical trainer and software support person for Cincom Systems and Duke Energy (formerly CG&E). He enjoys reading about the history of science and technology and is an avid running.

This month you have an opportunity to vote for a new slate of section officers. I have enjoyed my tenure as Section Chair and look forward to working with each of you in the near future. The next meeting of The Cincinnati Section Executive Committee will be in January of 2007. If you have any items that you want to place on the agenda please feel free to let me know.

MEMBERSHIP NEWS

NEW MEMBERS

The following individuals are IEEE members who are new to our Section:

Adedamola O. Adewoye	Matthew C. Metz
Les Adkins	Andrew A. Miller
Rodolfo A. Cerrud	Mary E. O'Brien
Jeff T. Cullinane	Michael L. Parker
Boakye Dankwa	Roger Patrick
Matthew X. Economou	Michael Pento
Heba M. Elgazzar	Abhinav Prakash
Timothy J. Held	Sherif S. Rashad
Linlin Hou	Mohsen Rezayat
Mark Langenkamp	John E. Stewart
Nathan C. Lee	Chris Thomas

We wish to welcome these new members to the Cincinnati Section!!!

IEEE 2006 CINCINNATI SECTION BALLOT

Election of Officers for Term Beginning 01/01/07 and Ending 12/31/08

SECTION CHAIR

☐ Brian J. Resnick ☐ Write-In _____

SECTION VICE-CHAIR

☐ Randall C. Restle ☐ Write-In _____

TREASURER

☐ Lauren Tappel ☐ Write-In _____

SECRETARY

☐ Ronald Harbaugh ☐ Write-In _____

MEMBER-AT-LARGE

☐ Marc A. Bell ☐ Write-In _____

Résumés of the above Candidates are on the next page.

Please return the completed ballot to Bob Morrison (Newsletter Editor) by

DECEMBER 15, 2006

either by e-mail to j.r.morrison@ieee.org or via regular mail to:

J. R. Morrison
4472 Oakville Drive
Cincinnati, Ohio 45211

Member Name: _____

Member Number: _____

Résumés of the Candidates

SECTION CHAIR:

BRIAN J. RESNICK - Currently an Assistant Professor in the Department of Electrical and Computer Engineering Technology at the University of Cincinnati, College of Applied Sciences. Founded the software design and development firm Algorithmic Technologies, Inc. in 1987. Brian is a Professional Engineer and holds eight patents. BSEE and MSEE from the University of Cincinnati.

SECTION VICE-CHAIR:

RANDALL C. RESTLE - Currently a Senior Engineering Manager at Harris Corporation and an Adjunct Professor at the University of Cincinnati, College of Engineering. At Harris, his responsibilities include managing project managers and development of broadcast television transmitter projects. At UC, he teaches digital signal processing to senior and graduate students. Randall holds three patents and is a licensed PE in the State of Ohio and a certified Project Management Professional. BSEE, MSEE and MBA from the University of Cincinnati.

SECTION TREASURER

LAUREN TAPPEL - BSEE University of Dayton, 1984; MBA-Finance University of Cincinnati, 1989: Employed by Cincinnati Bell Telephone as a New Product Developer, creating new converged services on Landline, Wireless and DSL networks. She started at CBT in 1986 and has worked in various departments including Outside Plant, Network Planning, Operations and Marketing. She began her engineering career at Harris Government Systems in Melbourne, Florida where she developed Satellite Modems.

SECTION SECRETARY

RONALD HARBAUGH - University of Cincinnati, 1975, BS (Engineering Sciences). Member of IEEE for 25 years and served in various positions in the Cincinnati Section including Section Chair and Secretary. Retired from the City of Cincinnati after 31 years service. Supervised the Section providing technical support of radio and 911 communications, and the City's fiber optic network. Former member of the Associated Public Safety Communications Officers (APCO). Retired as Director of 911 Communications Section in 2001.

MEMBER-AT-LARGE

MARC A. BELL - BSEET, University of Cincinnati CAS, 1994. Employed by Duke Energy (fka: Cinergy Corp) as a Distribution Planning Engineer since 1999 - Primary resource in planning and operating all aspects of distribution system supplying over 900 MW. Previous 15 years engineering, troubleshooting, and repair of coal and diesel generating facilities. Board member Association of Energy Engineers, AEE.



The College of Applied Science

Presents

**A Concentrated One-Quarter Course
Designed Specifically For
Electrical Engineers**

Electrical Professional Engineering (PE/EE) Review Course

Tuesday 5:30 – 8:20 PM

**3 Hours of College Credit Provided
University of Cincinnati Course Number
32-ELTN-099-901**

**Electrical Professional Engineering Review is designed to prepare engineers
To sit for the Professional Engineering Registration Exam**

Typical Topics covered include:

**AC and DC Circuit Analysis
Single and 3-Phase Power Systems
Electromagnetic and Transformers
Rotating Electric Machines
Combinational and Sequential Logic
Electronic Communication Circuits
Operational Amplifiers
Electronics
Control Systems**

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Combined Lecture – Problem Solving – Practice Exams-in 10 weekly classes

**PE/EE Review is offered by –
The Electrical Engineering Technology & Computer Technology (ECET) Department
2220 Victory Parkway
Cincinnati, OH 45206
513-556-6559 or www.uc.edu/cas/ecet/PEEE**

Scanning the Past: A History of Electrical Engineering from the Past

Submitted by Dick Reiman, Historian

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Joseph Warren Horton

Sixty-five years ago this month, the PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS (IRE) included a paper by J. Warren Horton on "the electrical transmission of pictures and images." At the time he was Chief Engineer of the General Radio Company of Cambridge, MA, but the paper was based on his earlier research at the Bell Telephone Laboratories. He had been an active participant in the design and testing of a mechanical-scan television system which had been demonstrated publicly in April 1927. Horton and his Bell Labs colleagues had demonstrated television reception over both wire and radio links. They had shown two receivers with one producing a small image for possible use as a video adjunct to a telephone and the other a large image suitable for use with a public address system. They had given technical details of the system in papers presented at the annual convention of the American Institute of Electrical Engineers (AIEE) in June 1927.

In his September 1929 paper, Horton pointed out that television service would require a much greater bandwidth than was needed for telephony. He explained that adding video reception to a home telephone would necessitate a bandwidth increase of the order of 200 times. He speculated that the determination of performance standards for television would require much more experimentation and that the ultimate quality achieved would be a reflection of the "law of supply and demand."

Horton was born in 1889 in Ipswich, MA, and graduated from the Massachusetts Institute of Technology (MIT), Cambridge, in 1914 with a B.S. degree in electrochemistry. He remained at MIT as a graduate student and instructor until 1916 when he joined the technical staff of the Western Electric Company in New York City. During World War I, he took a temporary leave from Western Electric to join the technical staff at an underwater sound laboratory at Nahant, MA. He helped develop hydrophone apparatus for submarine detection and was sent to Great Britain by the U.S. Navy to install the new system in the Irish Sea. After the War, he returned to Western Electric where he worked on multiplex carrier systems, loudspeakers, and quartz crystal oscillators as well as mechanical-scan television. He became a member of the research staff of the Bell Telephone Laboratories when it was formed in 1925.

In 1928, Horton left Bell to join the General Radio Company where he worked until 1933. He collaborated with Robert F. Field on the development of the General Radio 650-A impedance bridge which became one of the company's most successful products. In 1933, Horton returned to MIT where he engaged in research on instrumentation for use in medicine and taught courses in bioengineering. He received the D.Sc. degree from MIT in 1935 and did consulting work with local hospitals. During World War II, he was affiliated with an underwater sound laboratory operated for the Government by Columbia University and worked on sonar and underwater communication systems. In 1945 he returned to MIT where he taught communications engineering until 1949.

Horton was the Chief Research Consultant for the Navy's Underwater Sound Laboratory in New London, CT, from 1949 to 1959, when he became the Technical Director of the Laboratory, a position he held until his retirement in 1963. His course notes for a course on sonar for U.S. Navy officers served as a basis for his book entitled Fundamentals of Sonar published in 1957. He received the Navy's Distinguished Civilian Service Award in 1958 and was awarded approximately 56 U.S. patents for his inventions. He was the third recipient of

the Pioneers of Underwater Acoustics Award presented by the Acoustical Society of America. He was a Fellow of both the AIEE and the IRE. He died in 1967 at the age of 77.

*James E. Brittain
School of History, Technology, and Society
Georgia Institute of Technology*

UC Robotics Professor Ernie Hall Wins \$10,000 Grand Prize in Microsoft's "Made In Express" Contest



Jacqueline Russell, Ernie Hall, Mark Jewett and Engineering Dean Carlo Montemagno with the grand prize check.

Professor Ernie Hall, Paul E. Geier Professor and Director of the UC Center for Robotics in the Department of Mechanical, Industrial and Nuclear Engineering, has been selected the national winner of Microsoft's international "Made in Express" Contest. He is donating the grand prize award of \$10,000 to the UC Robotics Team. To read the complete story, go to <http://www.uc.edu/news/NR.asp?id=4387>

IEEE NEWS

IEEE-USA President Cites Need for High-Tech National Strategy at National Academies' Offshoring Workshop

WASHINGTON (24 October 2006) -- Because the offshoring of U.S. engineering and other high-skill jobs to developing countries is increasing, America needs a coordinated national strategy to maintain its technological leadership and promote job creation, IEEE-USA President Ralph W. Wyndrum Jr. said at the National Academy of Engineering today.

Wyndrum, speaking during the Academy's two-day "Workshop on the Offshoring of Engineering: Facts, Myths, Unknowns and Implications," said the offshoring of the U.S. engineering enterprise is an almost inevitable outcome of globalization.

"Labor cost is undoubtedly the major factor at present, but offshoring is much more complex than that," Wyndrum said. "Business is also motivated by such considerations as market access and market development, access to talent, the cost of capital, governmental economic incentives, special or lower cost infrastructures and capabilities (e.g. subsidized telecommunications or Internet), access to universities and research centers, comparative government regulations, and a host of other factors. Even if labor cost-margins narrow, there will still be strong incentives for offshoring."

Wyndrum's panel, "Implications for the Engineering Workforce and Profession," included Richard Freeman, the Herbert S. Ascherman professor of economics at Harvard University; and Vivek Wadhwa, executive-in-residence and adjunct professor at Duke University's Pratt School of Engineering. Lori Kletzer, professor of economics and department chair at the University of California, Santa Cruz, served as moderator.

Although U.S. engineers cannot guarantee their jobs will not be offshored, Wyndrum recommended mid-career and lifelong education, as well as being innovative and entrepreneurial to remain employed. "It will require a modicum of tough love at times to change engineers' thinking about their careers," he said. "And it will take time to affect changes and see the results."

For more on the workshop, go to:

<http://www.nae.edu/nae/engecocom.nsf/weblinks/PGIS-6SKKDZ?OpenDocument>

See Wyndrum's presentation at:

<http://www.ieeeusa.org/communications/presidentscolumn/wyndrum/WyndrumNAEOffshoring.pdf>

TWO KEY 60TH ANNIVERSARY COMPUTER SOCIETY AWARDS EVENTS HELD IN SAN DIEGO ON 30-31 OCTOBER

WASHINGTON (26 October 2006) -- In two of the most visible events to celebrate the 60th anniversary of ENIAC, the first all-electronic computer, and the 60th anniversary of the IEEE Computer Society, the Computer Society scheduled two key functions at the Sheraton San Diego Hotel and Marina on 30-31 October. The events were planned in connection with a joint meeting of the IEEE Computer Society's Board of Governors and the 36th Annual Frontiers in Education Conference.

On Monday, 30 October, the IEEE Computer Society convened a 60th anniversary reception, including a presentation of the Society's history competition award. The award was given by IEEE Computer Society Board of Governors Member Alan Clements and Northrop Grumman Information Technology Program Manager/Technical Fellow Kathy Land to an undergraduate team from the Russian State Technological Institute in Moscow. The team received a first-place prize of \$10,000, donated by Northrop Grumman, for its website on the history of the computer.

For more information on the student history competition, go to

<http://www.computer.org/education/chc60/winners>

On Tuesday, 31 October, the Computer Society held its President's Awards Banquet. Dr. Deborah Cooper presented awards for technical achievement, standards development, excellence in distributed computing systems, and to two computer pioneers.

Two computer pioneers from the United States and Japan were honored, respectively, for their contributions in developing an online data acquisition and recording system and a multi-access reservation system. From the United States, Arnold Spielberg was honored for his contribution "to real-time data acquisition and recording that significantly contributed to the definition of modern feedback and control processes." In 1954, Mr. Spielberg created an online data acquisition and recording system unique for its time. He is responsible for development and design of several GE, IBM and SDS computers, and is the father of Steven Spielberg, the movie director.

The second recipient of the "Computer Pioneer Award" is Mamoru Hosaka, who was recognized for "pioneering activities within computing in Japan." In 1955, he developed the basic idea for seat reservations on

trains, which has evolved into the multi-access reservation system. Mr. Hosaka's ideas and theories were applied by Toyota where clay models for car body style design and real master models for automotive manufacturing were replaced in the 1970s by computer internal models.

In addition, an award for exceptional contributions in distributed computing systems, the "Tsutomu Kanai Award," was presented to Elisa Bertino. She is professor of computer science and of electrical and computer engineering at Purdue University. Her main research interests include security and privacy for distributed systems, databases systems, object-oriented technology and multimedia systems. To prevent identity theft and other serious computer problems, Dr. Bertino is investigating secure distributed federated digital identity management systems. The "Kanai Award" is endowed by Hitachi Ltd.

For more information on the President's Awards, go to <http://www.computer.org/awards>

IEEE-USA Commends NASA Decision to Service Hubble Space Telescope

WASHINGTON (31 October 2006) -- IEEE-USA commends NASA for announcing today that it would send a Space Shuttle mission to extend the life of the Hubble Space Telescope.

"The Hubble is one of the most productive astronomical observatories ever built," said Dr. Russell Lefevre, IEEE-USA's vice president for technology policy. "The scientific achievements have fostered an understanding of outer space that would not have been possible without it. The proposed upgrades will provide even greater knowledge of the origin and structure of the universe."

A 2004 IEEE-USA position on the Hubble (<http://www.ieeeusa.org/policy/positions/hubble.asp>) called on NASA to explore "all possible avenues to prolong the useful life of the telescope for the benefit of science and humanity."

The final maintenance voyage to the Hubble is tentatively scheduled for sometime in 2008. Five separate space walks will be required to extend and improve the orbiting observatory's capabilities and keep it functioning through 2013. See NASA's news release at http://www.nasa.gov/home/hqnews/2006/oct/HQ_06343_HST_announcement.html

Nation Should Prepare for Possible Avian Flu Pandemic: "IEEE-USA Today's Engineer Online" Article

WASHINGTON (1 November 2006) -- The United States should develop an effective plan for its citizens in the event of an influenza pandemic, such as the avian (bird) flu, according to the current issue of IEEE-USA Today's Engineer Online.

Today's Engineer author Terrance Malkinson discusses what steps the U.S. government is already taking and why preparing for a possible pandemic is important. A global flu pandemic occurs when a new influenza virus emerges and people have little or no immunity.

"A severe influenza pandemic could lead to high levels of illness, death, social disruption and economic loss," according to Today's Engineer. "Large numbers of people in many places around the globe would become seriously ill at the same time. In the event of a pandemic, public health measures may be imposed to help contain or limit the spread of infection."

Although influenza pandemics are rare, three highly destructive ones occurred in the 20th century. In 1918, about 500,000 people died in the United States and up to 40 million worldwide. About 70,000 U.S. deaths and

1-2 million worldwide occurred in 1957. The 1968 flu pandemic claimed about 34,000 deaths in America and 700,000 worldwide.

Avian influenza A (H5N1 subtype) is causing the most current concern as a possible pandemic source even though there have been relatively few cases (205 as of April 2006) confirmed worldwide, including 113 deaths. Most human infections have resulted from direct contact with infected poultry or wild birds. So far, the person-to-person spread of H5N1 has been rare, limited and unsustainable.

“The issue,” according to Today’s Engineer, “is that H5N1 will evolve into a virus capable of human-to-human transmission. Scientists cannot predict for certain whether an avian influenza (H5N1) virus will cause a pandemic.”

To read the entire article, go to www.todaysengineer.org. To subscribe to Today’s Engineer Online, IEEE members can go to <http://ewh.ieee.org/enotece/options.php?LN=IEEEUSA>. Non-members can visit <http://www.todaysengineer.org/emailupdates/index.html>

THE LATEST ISSUE OF IEEE'S "THE INSTITUTE" IS NOW AVAILABLE AT

<http://www.ieee.org/theinstitute>

Included in this issue:

- Student Leaders Have Good Words for Pizza, T-shirts: Can free pizza and T-shirts be the keys to running a successful IEEE student branch? Don't laugh, for the answer is "Yes," according to IEEE student branch leaders who attended the first Student Leaders Summit of the IEEE University Partnership Program. Learn more at <http://bmsmail3.ieee.org:80/u/4315/04824637>
- Webinar Focuses on Design and Process Engineering: On 9 November, hear industry experts from Synopsys, Cadence, and Mentor Graphics discuss how to apply design-for-manufacturing methods to smooth the transition from design to process engineering. Sign up for the free IEEE Spectrum Tech Insider Webinar, Design and Process Engineering: Bridging the Electronic Design Automation Gap, sponsored by Cadence and hosted by IEEE Spectrum Online at <http://bmsmail3.ieee.org:80/u/4316/04824637>
- New Publication Spells Out IEEE Benefits: Do you have questions about planning for retirement? Need advice on disability insurance, college tuition, savings plans, or homeowner's insurance? Then check out F.Y.I., the newsletter of the IEEE Financial Advantage Program. For more information, visit <http://bmsmail3.ieee.org:80/u/4317/04824637>
- Mentors, Judges Needed for Robotics Competition: One good way to inspire high-school students to pursue an engineering career is to get them to do a little engineering -- like having them build a robot. Student robot competitions are growing in number, and one of the biggest is a U.S-wide program sponsored by a group called For Inspiration and Recognition of Science and Technology, or FIRST. To read more, go to <http://bmsmail3.ieee.org:80/u/4319/04824637>
- Marketplace of Ideas: Australian Spammers Fined Millions: The Australian Federal Court has fined Clarity1 Pty and its director, Wayne Mansfield, AU \$5.5 million for sending spam e-mails. Between April 2004 and April 2006, the company sent some 280 million spam messages, with about 74 million delivered successfully. The e-mails that advertised business seminars and various products violated

Australia's Spam Act, which prohibits unsolicited messages. What do you think of this punishment? Would you like it implemented in your country? Weigh in at institute@ieee.org

Also, read responses to August's question on whether you would support an Internet tax on e-mail and cellphone text messages. Answers range from a need to tax spam senders, to being against such a tax because it would control communication. Check out the responses at <http://bmsmail3.ieee.org:80/u/4320/04824637>

- Ready, Set, Retire: "Planning for retirement is not easy, but with the right road map you can enjoy a smooth ride," says Larry Grogan, president of financial advisor Grogan Advisory Services. To help IEEE U.S. members get on the right track, Grogan offered his advice during a retirement Webinar, sponsored by the IEEE Financial Advantage Program. Learn more at <http://bmsmail3.ieee.org:80/u/4321/04824637>
- EE Times Seeks Nominations for Awards: The newspaper EE Times seeks nominees for its Annual Creativity in Electronics Awards, which honors technology inventors who have demonstrated the leadership and innovation to shape the world we live in. Read more and submit your nomination at <http://bmsmail3.ieee.org:80/u/4323/04824637>
- Deadline Nears for Technical Field Award Nominations: The last day to nominate a colleague for a 2008 IEEE Technical Field Award is 31 January 2007. For more information on the awards and where to find nomination forms, go to <http://bmsmail3.ieee.org:80/u/4324/04824637>
- The Brightest Minds Discussing the Biggest Topics: Check out the upcoming IEEE Spectrum Tech Insider Webinars, which include such subjects as Entrepreneurship and Computer Science; Design and Process Engineering: Bridging the EDA Gap; Medical Technology Gets a Shot in the Arm; and Mobile Devices and Their Impact on Network Security. For information on the Webinar panelists or to sign up, go to <http://bmsmail3.ieee.org:80/u/4325/04824637>
- Driving the Cars of the Future Today: Ready to switch from gasoline-fueled cars to cleaner electric cars? Listen to an exclusive report by IEEE Spectrum's car expert, John Voelker, just back from a test drive of the Chevrolet Sequel, a hydrogen fuel-cell vehicle. Tune in to Spectrum Radio at <http://bmsmail3.ieee.org:80/u/4327/04824637>
- The Institute Wants Your News: The Institute is seeking more society, section, region and student branch news items in an effort to broaden the publication's coverage. We're also looking for information on members with interesting jobs or hobbies who we can profile. Even if you're not sure whether it's newsworthy, send the "who, what, when, where, and how" of the information and the editors will take it from there. E-mail your news to institute@ieee.org
- IEEE Magazine Discusses Networks, Fibers, and Sensors: The October issue of the IEEE/Optical Society of America's Journal of Lightwave Technology features articles on networks, fibers, integrated optics, sensors, and more. Abstracts for all articles in the issue can be found in the IEEE Xplore digital library, where subscribers also have access to the full articles at <http://bmsmail3.ieee.org:80/u/4328/04824637>

The IEEE Cincinnati Section Executive Committee
Member Names and Phone Numbers

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